

## FIGURE 1A

1 CGGGCCTGAGACTGGGGTGGTGGGACCTAAGAGAATCCTGAGCTGGAGGCCCCCGACAG  
 61 CTGCTCTCGGGAGCCGCCTCCCGACACCCGAGCCCCGCGGCGCTCCCGCTCCCGGCTC  
 121 CCGGCTCCTGGCTCCCTCCGCCTCCCCCGCCCCCTCGCCCCGCGCGCCGAAGAGGCCCCGCT  
 181 CCCGGGTCGGACGCCTGGGTCTGCCGGGAAGAGCGATGAGAGGTGTCTGAAGGTGGCTAT  
 241 TCACTGAGCGATGGGGTTGGACTTGAAGGAATGCCAAGAGATGCTGCCCCCACCCCTTA  
  
 1 M G P E A L S S L L L L L L L  
 301 GGCCCCGAGGGATCAGGAGCTATGGGACCAGAGGCCCTGTCATCTTTACTGCTGCTGCTCT  
 15 V A S G D A D M K G H F D P A K C R Y A  
 361 TGGTGGCAAGTGGAGATGCTGACATGAAGGGACATTTTGATCCTGCCAAGTGCCGCTATG  
 35 L G M Q D R T I P D S D I S A S S S W S  
 421 CCCTGGGCATGCAGGACCGGACCATCCAGACAGTGACATCTCTGCTTCCAGCTCCTGGT  
 55 D S T A A R H S R L E S S D G D G A W C  
 481 CAGATTCCACTGCCGCCCGCCACAGCAGGTGGAGAGCAGTGACGGGGATGGGGCCTGGT  
 75 P A G S V F P K E E E Y L Q V D L Q R L  
 541 GCCCCGAGGGTGGTGTTCCTCCAAAGGAGGAGGAGTACTTGCAGGTGGATCTACAACGAC  
 95 H L V A L V G T Q G R H A G G L G K E F  
 601 TCACCTGGTGGCTCTGGTGGGCACCCAGGACCGCATGCCGGGGGCTGGGCAAGGAGT  
 115 S R S Y R L R Y S R D G R R W M G W K D  
 661 TCCTCCCGGAGCTACCGGCTGCGTTACTCCCGGATGGTCCCGGCTGGATGGGCTGGAAGG  
 135 R W G Q E V I S G N E D P E G V V L K D  
 721 ACCGCTGGGGTCAGGAGGTGATCTCAGGCAATGAGGACCCTGAGGGAGTGGTGTGAAGG  
 155 L G P P M V A R L V R F Y P R A D R V M  
 781 ACCTTGGGCCCCCATGGTTGCCGACTGGTTGCTTCTACCCCCGGGCTGACCGGGTCA  
 175 S V C L R V E L Y G C L W R D G L L S Y  
 841 TGAGTGTCTGTCTGCGGGTAGAGCTCTATGGCTGCCTCTGGAGGGATGGACTCCTGTCTT  
 195 T A P V G Q T M Y L S E A V Y L N D S T  
 901 ACACCGCCCCCTGTGGGGCAGACAATGTATTTATCTGAGGCCGTGTACCTCAACGACTCCA  
 215 Y D G H T V G G L Q Y G G L G Q L A D G  
 961 CCTATGACGGACATACCGTGGGCGGACTGCAGTATGGGGGTCTGGGCCAGCTGGCAGATG  
 235 V V G L D D F R K S Q E L R V W P G Y D  
 1021 GTGTGGTGGGGCTGGATGACTTTAGGAAGAGTCAGGAGCTGCGGGTCTGGCCAGGCTATG  
 255 Y V G W S N H S F S S G Y V E M E F E F  
 1081 ACTATGTGGGATGGAGCAACCACAGCTTCTCCAGTGGCTATGTGGAGATGGAGTTTGAGT  
 275 D R L R A F Q A M Q V H C N N M H T L G  
 1141 TTGACCGGCTGAGGGCCTTCAGGCTATGCAGGTCCACTGTAACAACATGCACACGCTGG  
 295 A R L P G G V E C R F R R G P A M A W E  
 1201 GAGCCCGTCTGCCGCGGGTGAATGTGCTTCCGGCGTGGCCCTGCCATGGCCTGGG  
 315 G E P M R H N L G G N L G D P R A R A V  
 1261 AGGGGGAGCCCATGCGCCACAACCTAGGGGGCAACCTGGGGGACCCAGAGCCCGGGCTG  
 335 S V P L G G R V A R F L Q C R F L F A G  
 1321 TCTCAGTGCCCCCTGGCGGCGGTGTGGCTCGCTTCTGCAAGTCCGCTTCTCTTTGCGG  
 355 P W L L F S E I S F I S D V V N N S S P  
 1381 GGCCCTGGTTACTCTTCAGCGAAATCTCCTTCATCTCTGATGTGGTGAACAATTCCTCTC

## FIGURE 1B

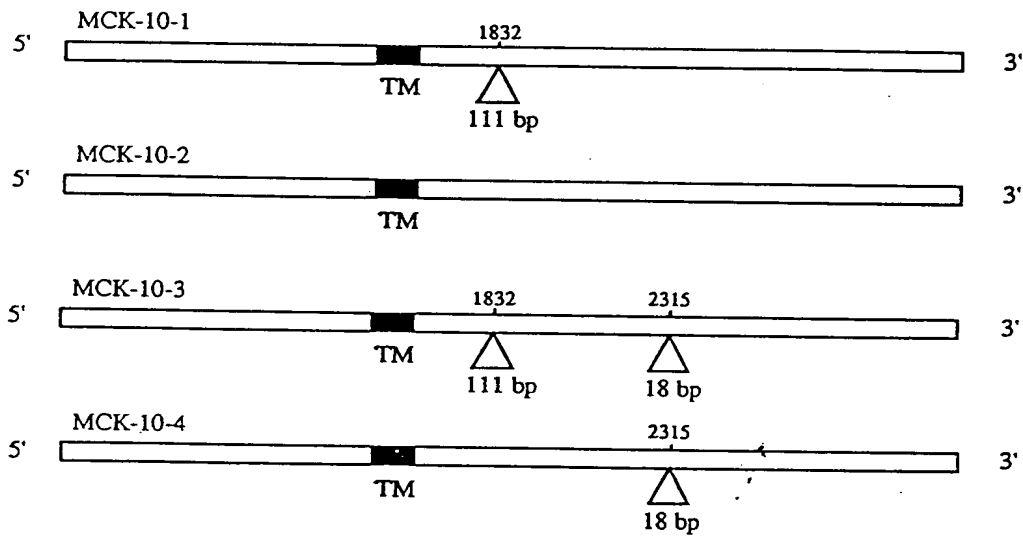
375 A L G G T F P P A P W W P P G P P P T N  
 1441 CGGCACTGGGAGGCACCTTCCCCCAGCCCCCTGGTGGCCGCCTGGCCCCACCTCCACCA  
 395 F S S L E L E P R G Q Q P V A K A E G S  
 1501 ACTTCAGCAGCTTGGAGCTGGAGCCCAGAGGCCAGCAGCCGTGGCCAAGGCCGAGGGGA  
 415 P T A I L I G C L V A I I L L L L L I I  
 1561 GCCCGACCGCCATCTCATCGGCTGCCTGGTGGCCATCATCTGCTCCTGCTGCTCATCA  
 435 A L M L W R L H W R R L L S K A E R R V  
 1621 TTGCCCTCATGCTCTGGCGGCTGCACTGGCGCAGGCTCCTCAGCAAGGCTGAACGGAGGG  
 455 L E E E L T V H L S V P G D T I L I N N  
 1681 TGTTGGAAGAGGAGCTGACGGTTACCTCTCTGTCCCTGGGGACACTATCCTCATCAACA  
 475 R P G P R E P P P Y Q E P R P R G N P P  
 1741 ACCGCCAGGTCTAGAGAGCCACCCCGTACCAGGAGCCCCGGCCTCGTGGGAATCCGC  
 495 H S A P C V P N G S A L L L S N P A Y R  
 1801 CCCACTCCGCTCCCTGTGTCCCCAATGGCTCTGCGTTGCTGCTCTCCAATCCAGCCTACC  
 515 L L L A T Y A R P P R G P G P P T P A W  
 1861 GCCTCCTTCTGGCCACTTACGCCCCGCCCCCTCGAGGCCGGGCCCCCCCCACACCCGCT  
 535 A K P T N T Q A Y S G D Y M E P E K P G  
 1921 GGGCCAAACCCACCAACACCCAGGCCACAGTGGGGACTATATGGAGCCTGAGAAGCCAG  
 555 A P L L P P P P Q N S V P H Y A E A D I  
 1981 GCGCCCCGCTTCTGCCCCCACCTCCCCAGAACAGCGTCCCCCATATGCGGAGGCTGACA  
 575 V T L Q G V T G G N T Y A V P A L P P G  
 2041 TTGTTACCTGCAAGGGCGTCACCGGGGCAACACCTATGCTGTGCCTGCACTGCCCCCAG  
 595 A V G D G P P R V D F P R S R L R F K E  
 2101 GGGCAGTCGGGGATGGGCCCCCAGAGTGGATTTCCTCGATCTCGACTCCGCTTCAAGG  
 615 K L G E G Q F G E V H L C E V D S P Q D  
 2161 AGAAGCTTGGCGAGGGCCAGTTGGGGAGGTGCACCTGTGTGAGGTGACAGCCCTCAAG  
 635 L V S L D F P L N V R K G H P L L V A V  
 2221 ATCTGGTCAGTCTTGATTTCCTTAAATGTGCGTAAGGGACACCCTTTGCTGGTAGCTG  
 655 K I L R P D A T K N A S F S L F S R N D  
 2281 TCAAGATCTTACGGCCAGATGCCACCAAGAATGCCAGCTTCTCCTTGTCTCCAGGAATG  
 675 F L K E V K I M S R L K D P N I I R L L  
 2341 ATTTCTGAAAGAGGTGAAGATCATGTGAGGCTCAAGGACCCCAACATCATTCGGCTGC  
 695 G V C V Q D D P L C M I T D Y M E N G D  
 2401 TGGGCGTGTGTGTGAGGACGACCCCTCTGCATGATTACTGACTACATGGAGAACGGCG  
 715 L N Q F L S A H Q L E D K A A E G A P G  
 2461 ACCTCAACCAGTTCTCAGTGCCACCAGCTGGAGGACAAGGCAGCCGAGGGGGCCCCCTG  
 735 D G Q A A Q G P T I S Y P M L L H V A A  
 2521 GGGACGGGCAGGCTGCGCAGGGGGCCACCATCAGCTACCCAATGCTGCTGATGTGGCAG  
 755 Q I A S G M R Y L A T L N F V H R D L A  
 2581 CCCAGATCGCCTCCGGCATGCGCTATCTGGCCACACTCAACTTTGTACATCGGGACCTGG  
 775 T R N C L V G E N F T I K I A D F G M S  
 2641 CCACGCGGAACGCCTAGTTGGGGAAAATTCACCATCAAAATCGCAGACTTTGGCATGA

## FIGURE 1C

795 R N L Y A G D Y Y R V Q G R A V L P I R  
2701 GCCGGAACCTCTATGCTGGGGACTATTACCGTGTGCAGGGCCGGGCAGTGCTGCCCCATCC  
815 W M A W E C I L M G K F T T A S D V W A  
2761 GCTGGATGGCCTGGGAGTGCATCCTCATGGGGAAGTTCACGACTGCGAGTGACGTGTGGG  
835 F G V T L W E V L M L C R A Q P F G Q L  
2821 CCTTTGGTGTGACCCTGTGGGAGGTGCTGATGCTCTGTAGGGCCCCAGCCCTTTGGGCAGC  
855 T D E Q V I E N A G E F F R D Q G R Q V  
2881 TCACCGACGAGCAGGTTCATCGAGAACGCGGGGAGTTCCTCCGGGACCAGGGCCGGCAGG  
875 Y L S R P P A C P Q G L Y E L M L R C W  
2941 TGTACCTGTCCCGGCCGCTGCTGCCCCGAGGGCCTATATGAGCTGATGCTTCGGTGCT  
895 S R E S E O R P P F S Q L H R F L A E D  
3001 GGAGCCGGGAGTCTGAGCAGCGACCACCTTTTCCAGCTGCATCGGTTCCTGGCAGAGG  
915 A L N T V  
3061 ATGCACTCAACACGGTGTGAATCACACATCCAGCTGCCCCCTCCCTCAGGGAGTGATCCAG  
3121 GGAAGCCAGTGACACTAAAACAAGAGGACACAATGGCACCTCTGCCCTTCCCCCTCCCGA  
3181 CAGCCCATCACCTCTAATAGAGGCAGTGAGACTGCAGGTGGGCTGGGCCCCACCCAGGGAG  
3241 CTGATGCCCTTCTCCCCCTTCTGGACACACTCTCATGTCCCCCTTCTGTCTTCTCTCC  
3301 TAGAAGCCCCCTGTGCCCCACCCAGCTGGTCTGTGGATGGGATCCTCTCCACCCTCCTCT  
3361 AGCCATCCCTTGGGGAAGGGTGGGGAGAAATATAGGATAGACACTGGACATGGCCCATTG  
3421 GAGCACCTGGGCCCCACTGGACAACACTGATTCTCTGGAGAGGTGGCTGCGCCCCAGCTTC  
3481 TCTCTCCCTGTACACACTGGACCCCACTGGCTGAGAATCTGGGGGTGAGGAGGACAAGA  
3541 AGGAGAGGAAAATGTTTCTTGTGCTGCTCTGTACTTGTCTCAGCTTGGGCTTCTTC  
3601 CTCCTCCATCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCAGCCCTCAGTCACCC  
3661 CCACTTCCCACTGTCAGTCTGTAGCTAGAACTTCTCTAAGCCTATACGTTTCTGTGGAG  
3721 TAAATATTGGGATTGGGGGAAAGAGGGAGCAACGGCCCCATAGCCTTGGGGTTGGACATC  
3781 TCTAGTGTAGCTGCCACATTGATTTTCTATAATCACTTGGGGTTGTACATTTTGGGG  
3841 GGAGAGACACAGATTTTACACTAATATATGGACCTAGCTTGAGGCAATTTTAAATCCCCT  
3901 GCACTAGGCAGGTAATAATAAAGGTTGAGTTTCCACAAAAAAAAAAAAAAAAACCGGAAT  
3961 TC

FIGURE 2

MCK-10 Splice Variants



2  
gcacgagcggcagcagtcctatgatctctttccatcctccctttctggttgcctcactttct  
cgtgctcgcctgctcaggtactagagaaaggttaggagggaaggactttcgagtgaaga 61

b

62  
ttcttctgctcaicttggagactgtgcaatcccagattaactacaacagagaagagctgg  
aaagaacgagtgagaacctctgacccgttaggggtctaattgatgtttgtctcttctcgacc 121

b

122  
tgatagctccagagctcagagaaaggagggtctctttacaagaagtctggctctcaaggcc  
actatcgagggtctcgaggtctcttctctcagagaaatgttcttcagaccgagaggttctgg 181

b

182  
tccatcaaggaggacctacaagttgcctggggttcagtgtcttagaaagttccaagggttt  
aggtagttccctctggatgttcaacggaccccgaagtacagagatctttcaagggtccaaa 241

b

242  
gtggcttgaattattctaaagaagctgaataattgaagagaagcagaggccagctgttt  
caccgaacttaataagattttctcgactttattaaactctctctgctccggctcgacaaa 301

b

302  
ttgaggatctctccacagagaatgtctctgacccggttgatactccagttccaacacca  
aactcctaggacgaggtgtctcttacgagacgtgggcaactatgagggtcaagggtgtggt 361

b

362  
tctctgagatgatcctgattcccagaatgctcttgggtgctgttctgctgctgcctatc  
agaagactctactaggactaagggtcttacgagaaccacgacaaggacgacgacggatag 421

b

422  
ttgaggtctgcaaaagctcaggttaataccagctatatgccctatcctctgggcatgtca  
aactcaagacgttttcgagttccaattagggtcgatatacggcgataggagaccgctacagt 481

b

482  
L S S A K A Q V N P A I C R Y P L G M S -  
ggaggccagattccagatgaggacatcagacgttcaggtcaggtggtcagagttccacagct  
cctccgggtctaagggtctactcctgtagtgtcgaagggtcagtcaccaggtctcaggtgtcga 541

b

542  
G G Q I P D E D I T A S S Q W S E S T A -  
gccaaatatggaaggctggactcagaagaaggggatggagcctggtgccctgagattcca  
cggtttatacctccgacctgagttcttctccctaccctcggaccacgggactctaaaggt 601

b

602  
A K Y G R L D S E E G D G A W C P E I P -  
gtggaacctgatgacctgaaggagttttctgcagattgacttgcacacctccattttatc  
caccttggactactggacttctcacaagacgtctaaactgaacgtgtgggaggttaaaatag 661

b

662  
V E P D D L K E F L Q I D L H T L H F I -  
actctggtgggggaccaggggggcgagcaggaggtcatggcatcgagtttgcccccatg  
tgagaccacccctgggtccccggggtcgtctccagttaccgttagctcaaacgggggtac 721

b

722  
T L V G T Q G R R A G G H G I E F A P H -  
tacaagatcaattacagtcgggatggcactcgttgatctcttggcggaacctgtatggg  
atgttctagttaattgtcagccctaccgtgagcgacctagagaaccgccttggcagttacc 781

b

782  
Y K I N Y S R O G T R W I S H R N R H G -  
aaacaggtgtcgtggaatggaatagtaacccctatgacattttctcaaaaggacttggagccg  
tttgcaccagacctacctttatcattggggatatactgtaaaaggatttcttgaacctcggc 841

## FIGURE 3B

a K Q V L O G N S N P Y D I F L K D L E P -  
 cccattgtagccagatttgcgggttcattccagtcaccgaccactccatgaatgtgtgt  
 842 ----- 901  
 gggtaacatcggtctaaacaggccaagtaaggctcagtggtggtgaggtecttacacaca  
 b P I V A R F V R F I P V T D H S H N V C -  
 atgagagtggagctttacggctGTGTCTGGCTAGATGGCTGGTGTCTTACAATGCTCCA  
 902 ----- 961  
 tactctcacctcgaaatgccGACACAGACCGATCTACCGAACACAGAAATGTTACGAGGT  
 b H R V E L Y G C V W L O G L V S Y N A P -  
 GCTGGGCAGCAGTTTGTACTCCCTGGAGGTTCCATCATTTATCTGAATGATTCTGTCTAT  
 962 ----- 1021  
 CGACCCGTCGTCAAACATGAGGGACCTCCAAGGTAGTAATAGACTTACTAAGACAGATA  
 b A G Q Q F V L P G G S I I Y L N D S V Y -  
 GATGGAGCTGTGGATACAGCATGACAGAAGGGCTAGGCCAATTGACCGATGGTGTGTCT  
 1022 ----- 1081  
 CTACCTCGACAACCTATGTCTGTCTTCCGATCCGGTTAACTGGCTACCACACAGA  
 b D G A V G Y S H T E G L G Q L T D G V S -  
 GGCTGGACGATTTCAACCAGACCCATGAATACCAGTGTGGCCCGGCTATGACTATGTG  
 1082 ----- 1141  
 CCGGACCTGTAAAGTGGGTCTGGGTACTTATGGTGACACCGGGCCGATACTGATACAC  
 b G L D D F T Q T H E Y H V W P G Y O Y V -  
 GGCTGGGGAAAGAGAGTGGCCACCAATGGCTACATTGAGATCATGTTTGAATTTGACCGC  
 1142 ----- 1201  
 CCGACCGCCTGTCTCAGGTGGTTACCGATGTAACCTAGTACAACTTAACTGGCG  
 b G W R N E S A T N G Y I E I H F E F D R -  
 ATCAGGAATTTCACTACCATGAAGGTCCACTGCAACAACATGTTTGTAAAGGTGGAAG  
 1202 ----- 1261  
 TAGTCCTTAAAGTGATGGTACTTCCAGGTGACGTGTTGTACAACGATTCCACACTTC  
 b I R N F T T H K V H C N N H F A K G V K -  
 ATCTTTAAGGAGGTACAGTGTCTTCCGCTCTGAAGCCAGTGAGTGGGTACCTAATGCC  
 1262 ----- 1321  
 TAGAAATTCCTCATGTCCAGATGAAGGCGAGACTTCGGTCACTCACCCTGGATTACGG  
 b I F K E V Q C Y F R S E A S E W V P H A -  
 ATTCCTTccccctgtcctggatgacgtcaacccagtgctcggtttgtcacgggtgcct  
 1322 ----- 1381  
 TAAAGGAAGggggaacaggacctactgcagttggggtcacgagccaaacagtgccacgga  
 b I S F P L V L D D V N P S A R F V T V P -  
 ctccaccaccgaatggccagtgccatcaagtgtaatacattttgcagatacctggatg  
 1382 ----- 1441  
 gaggtggtggcttacgggtcacggttagttcacagttatggttaaacgtctatggacctac  
 b L H H R N A S A I K C Q Y H F A D T W H -  
 atgttcagtgagatcaccttccaatcagatgctgcaatgtacaacaactctgaagccctg  
 1442 ----- 1501  
 tacaagtcactctagtggaagggttagtctacgacgttacatgttggtagacttcgggac  
 b H F S E I T F Q S D A A H Y K N S E A L -  
 cccacctctctatggcaccacaaacctatgatccaatgcttaaagttgatgacagcaac  
 1502 ----- 1561  
 ggggtggagaggataccgtgggtgttgatactaggttacgaatttcaactactgtcgttg  
 b P T S P H A P T T Y D P H L K V D O S H -  
 actcggatcctgattggctgcttgggtggccatcatctttatcctcctggccatcattgtc  
 1562 ----- 1621  
 tgagcctaggactaacggacgaaccacggtagtagaaataggaggaccggtagtaacag  
 b T R I L I G C L V A I I F I L L A I I V -  
 atcatcctctggaggcagttctggcagaaaatgctggagaaggcttctcggaggatgctg  
 1622 ----- 1681  
 tagtaggagacctccgtcaagaccgtcttttacgacctctccgaagagcctctacgac  
 b I I L W R Q F W Q K M L E K A S R R H L -  
 gatgatgaatgacagtcagccttccccgccaagtgattctagcatgttcaacaataac

G002740-031-030

1682  
ctactactttactgtcagtcggaaggggcggttcactaagatcgtacaagctgttatig 1741

b  
O D E M T V S L S L P S D S S M F K N N -  
cgctccctcatcacctagtgtacaagggtccaaactcgacttacgatcgcatctttccctt  
1742  
gcgaggagttagtgatcactgtgtccagggttgagctgaatgctagcgtagaaaggggaa 1801

b  
R S S S P S E Q G S N S T Y O R I F P L -  
cgccctgactacCAGGAGCCATCCAGGCTGATACGAAAACCTCCAGAAATTTGCTCCAGGG  
1802  
gcgggactgatgTTCCTCGGTAGGTCCGACTATGCTTTTGAGGGTCTTAAACGAGGTCCC 1861

b  
R P D Y Q E P S R L I R K L P E F A P G -  
GAGGAGGAGTCAGGCTGCAGCGGTGTTGTGAAGCCAGTCCAGCCAGTGGCCCTGAGGGG  
1862  
CTCCTCCTCAGTCCGACGTCCGCCACACACTTCGGTCAGGTCCGGTCACTGGGACTCCCC 1921

b  
E E E S G C S G V V K P V Q P S G P E G -  
GTGCCCCACTATGCAGAGGCTGACATAGTGAACCTCCAAGGAGTGACAGGAGGCAACACA  
1922  
CACGGGGTGATAGTCTCCGACTGTATCACTTGGAGGTTCCTCACTGTCTCCGTTGTGT 1981

b  
V P H Y A E A D I V N L Q G V T G G N T -  
TACTCAGTGCTGCCGTCAACATGGACCTGCTCTCAGGAAAAGATGTGGCTGTGGAGGAG  
1982  
ATGAGTCACGGACGGCAGTGGTACCTGGACGAGAGTCTCTTTCTACACCGACACCTCCTC 2041

b  
Y S V P A V T M O L L S G K D V A V E E -  
TTCCCCAGGAACTCCTAACTTTCAAAGAGAAGCTGGGAGAAGGACAGTTTGGGGAGGTT  
2042  
AAGGGGTCTCTTGAGGATTGAAAGTTTCTCTTCGACCTCTTCTGTCAAACDCTCCAA 2101

b  
F P R K L L T F K E K L G E G Q F G E V -  
CATCTCTGTGAAGTGGAGGAATGGAAAAATCAAAGACAAAGATTTGCCCTAGATGTC  
2102  
GTAGAGACACTTCACCTCCCTTACCTTTTAAAGTTTCTGTTTCTAAACCGGATCTACAG 2161

b  
H L C E V E G M E K F K O K D F A L D V -  
AGTGCCAACCAAGCTGTCTGGTGGCTGTGAAATGCTCCGAGCAGATGCCAACAGAAT  
2162  
TCACGGTTGGTCCGACAGGACACCGACACTTCTACGAGGCTCGTCTACGGTTGTTCTTA 2221

b  
S A N Q P V L V A V K M L R A D A N K N -  
GCCAGGAATGATTTTCTTAAGGAGATAAGATCATGTCTCGGCTCAAGGACCCAAACATC  
2222  
CGGTCTTACTAAAAGAATTCCTCTATTCTAGTACAGAGCCGAGTTCTGGGTTGTAG 2281

b  
A R N O F L K E I K I M S R L K D P N I -  
ATCCATCTATTAGCTGTGTATCACTGATGACCTCTCTGTATGATCACTGAATACATG  
2282  
TAGGTAGATAATCGACACACATAGTGACTACTGGGAGAGACATACTAGTGACTTATGTAC 2341

b  
I H L L A V C I T D D P L C H I T E Y M -  
GAGAATGGAGATCTCAATCAGTTTCTTTCCCGCCACGAGCCCCAATTTCTCTCCACGC  
2342  
CTCTTACCTCTAGAGTTAGTCAAAGAAAGGGCGGTGCTCGGGGATTAAGAAGGAGGTGC 2401

b  
E N G O L N Q F L S R H E P P N S S S S -  
GATGTACGCAGCTGTCAAGTTACACCAATCTGAAGTTTATGGCTACCCAAATTCCTCTGGC  
2402  
CTACATCGGTGACAGTCAATGTGGTTAGACTTCAAATACCGATGGGTTTAAACGAGACCG 2461

b  
O V R T V S Y T N L K F M A T Q I A S G -  
ATGAAGTACCTTTCTCTCTTAATTTTGTTCACCGAGATCTGGCCACACGAAACTGTTTA  
2462  
TACTTCATGGAAAGGAGAGAATTAACATGTGGCTCTAGACCGGTGTGCTTTTGACAAAT 2521

b  
H K Y L S S L N F V H R O L A T R N C L -  
GTGGGTAAAGAACTACACAATCAAGATAGCTGACTTTGGAATGAGCAGGAACCTGTACAGT  
2522  
CACCCATTCTTGATGTGTAGTTCTATCGACTGAAACCTTACTCGTCCCTTGGACATGTCA 2581

b  
V G K N Y T I K I A D F G H S R N L Y S -

## FIGURE 3D

2582 GGTGACTATTACCGGATCCAGGGCCGGCAGTGCTCCCTATCCGCTGGATGCTCTGGGAG  
 CCACTGATAATGGCCTAGGTCCCGGCCGTCACGAGGGATAGGCGACCTACAGAACCCCTC 2641  
 b G D Y Y R I Q G R A V L P I R W H S H E -  
 2642 AGTATCTTGCTGGGCAAGTTCACTACAGCAAGTGATGTGGGCCCTTTGGGGTTACTTTG  
 TCATAGAACGACCCGTTCAAGTGATGTCGTTCACTACACCCGGAAACCCCAATGAAC 2701  
 b S I L L G K F T T A S D V H A F G V T L -  
 2702 TGGGAGACTTTCACCTTTTGTCAAGAACAGCCCTATTCACAGCTGTCAGATGAACAGGT  
 ACCCTCTGAAAGTGGAAACAGTTCTTGTCCGGATAAGGGTCGACAGTCTACTTGTCCAA 2761  
 b H E T F T F C Q E Q P Y S Q L S D E Q V -  
 2762 ATTGAGAATACTGGAGAGTTCTTCCGAGACCAAGGGAGGCAGACTTACCTCCCTCAACCA  
 TAACTCTTATGACCTCTCAAGAAGGCTCTGGTTCCTCCGTCTGAATGGAGGAGTTGGT 2821  
 b I E K T G E F F R D Q G R Q T Y L P Q P -  
 2822 GCCATTTGTCTGACTCTGTGTATAAGCTGATGCTCAGCTGCTGGAGAAGAGATACGAAG  
 CGGTAACAGGACTGAGACACATATTCGACTACGAGTCGACGACCTCTTCTATGCTTC 2881  
 b A I C P D S V Y K L H L S C W R R D T K -  
 2882 AACCGTCCCTCATTCCAAGAAATCCAACCTTCTGCTCCTTCAACAAGGCGACGAGTGATGC  
 TTGGCAGGGAGTAAGGTCTTTAGGTGGAAGACGAGGAAGTTGTTCCGCTGCTCACTACG 2941  
 b K R P S F Q E I H L L L L Q Q G D E -  
 2942 TGTCAGTGCTGGCCATGTTCTACGGCTCAGGTCTCCCTACAAGACCTAOCACCTCACC  
 ACAGTCACGGACCGGTACAAGGATGCCGAGTCCAGGAGGGATGTTCTGGATGGTGAGTGG 3001  
 b  
 3002 CATGCCATATGCCACTCCATCTGGACATTTAATGAAACTGAGAGACAGAGGCTTGTGCT  
 GTACGGATACGGTGAGGTAGACCTGTAAATTACTTTGACTCTCTGTCTCCGAACAAACGA 3061  
 b  
 3062 TTGCCCTCTTTTCTGCTCACCCCACTCCCTACCCCTGACTCATATATACTTTTTTTT  
 AACGGGAGAAAAGGAACAGTGGGGTGAGGGATGGGGAAGTATATATGAAAAA 3121  
 b  
 3122 TTACATTAAAGAACTAAAAAAAAAAAAAAAAAGGCG  
 AATGTAATTTCTTGATTTTTTTTTTTTTTTTCCGC 3158  
 b

002440 00000000



## FIGURE 4A

1 MILIPRMILLVFLLLPILSSA...KAQVNPATCRYPLGMSGGQIPDEDIT 47 CCK-2  
 1 ..MGPEALSSLLLLL VASGDADHKGHFDPACRYALGMQORTIPDSOIS 48 MCK-10  
 48 ASSQHSSESTAKEYGRLDSEEGOGAHCPEIPVEPDOLKEFLQIDLHLFI 97  
 49 ASSSHSOSTAARHSRLSSDGGGAWCPAGSVFPKE.EEYLQVQLQLHLV 97  
 98 TLVGTQGRRAGGHGIEFAPHYKINYSRDGTRHISRRNRHGKQVLDGHSNP 147  
 98 ALVGTQGRHAGGLGKEFSRSYRLRYSRDGRRHNGKDRWGQEVISGHEDP 147  
 148 YDIFLKDLPPPIVARFVRFIPVTDHSHNVCHRVELYGCWVLOGLVSYNAP 197  
 148 EGVVLKDLGPPHVARLVRFYPRADRVMSVCLRVELYGCWVLOGLVSYNAP 197  
 198 AGQQFVLPGGSIITLNDOSVYDG..AVGYSNTEGLGQLTDGVSGLDFTQTH 246  
 198 VGQTHYLSEA..VYLNOSTYDGHVGGGLQYGGGLGQLADGVVGLDDFRKSQ 245  
 247 EYHVMPPGYDYVGMNSESATRGYIEIMFEFDRIRNFTTKVHCNNHFAKGV 296  
 246 ELRVMPGYDYVGMNHSFSSGYVEHEFEFORLRAFQAHQVHCNNHHTLGA 295  
 297 KIFKEVQC..YFRSEASEWVPNAISFPLVLDVNP SARFVTPLHHRKASA 345  
 296 RLPGGVECRFRRGPAMAWEGEPMRHNHGGNLGDPRAVAVSVPLGGRVARF 345  
 346 IKQYHFADTMHFESEITFQSOAAHYNNSEALPTS..... 380  
 346 LQCRFLFAGPMLLFSEISFISO.VVNNSSPALGGTFPPAPMPPGPPPTN 394  
 381 ....PMAPTYYDPMKVDOSNTRILIGCLVAJIFILLAIIVILNRQFWQ 426  
 395 FSSLELEPRGQQPVAKAEGSPTAILIGCLVAJILLILLI IALMLKRLKMR 444  
 427 KMLEKASRRMLDOENTVSLSLPSDSSMFNNRSSSPSEQGSHSTYORIFP 476  
 445 RLLSKAERRVLEELTVHLSVPGOTILINRPPGPREP..... 481  
 477 LRPOYQEPSRLIRKLPEFAPGEEESGCSG.....VVKPVQPSGPEGV 518  
 482 ..PPYQEP RPGRNPPHSAPCVNGSAYSQDYNEPEKPGAPLPPPPQHSV 521  
 519 PHYAEADIVR...VTGGRTYVPAVTHDLSGKQVAVEEFPRKLLTFKEK 562  
 530 PHYAEADIVTLQGVTTGGNTYAVPALPPGAVEDGPPRV..OFPRSLRFKEK 578  
 569 LGEGQFGEVHLCEVEGMEKFKDKDFALDVSANQPVLVAVKHLRADANKNA 618  
 579 LGEGQFGEVHLCEVOSPQQLVSLDFPLNVRKGHPLLVAVKILRPDANKNA 628  
 619 RNDFLKEIKHSRLKDPNIHLLAVCITDPLCHITEYHENGDLNQFLSR 668  
 629 RNDFLKEVKHSRLKDPNIIRLLGVCVQDPLCNITDYHENGDLNQFLSA 678  
 669 HE.....PPNSSSDVRTVSYTHLKFMATQIASGHKYLSSLMFVHR 709  
 679 HQLEDKAAEGAPGQGAAQGTISTYPMLLHVAQIASGHRYLATLNFVHR 728  
 710 DLATRNCLVGKNTYIKIADFQMSRNLYSGDYRIQGRAVLPIRMMSVESI 759  
 729 DLATRNCLVGENFTIKIADFQMSRNLYAGDYRVQGRAVLPIRMMAHECI 778  
 760 LLGKFTTASDVHAFGVTLWETFTFCQEQPYSQLSDEQVIENAGEFFRDQ 809  
 779 LHGKFTTASDVHAFGVTLWEVLMLCRAQPFGLTDEQVIENAGEFFRDQ 828  
 810 RQTYLPQPAICPDSVYKHLHLSCHRDTKNRPSFQEIHLILLQQGE.. 855  
 829 RQVYLSRPPACPGGLYELHLCVSRSEQRPPESQLHRLAEDALNTV 876

Transmembrane region

ATP-  
binding site

00440:00440

Figure 4B

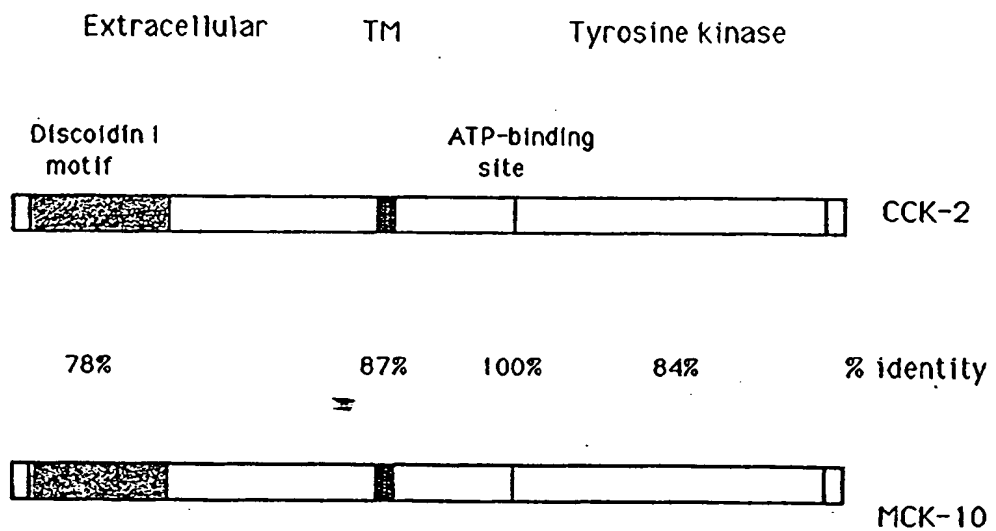


FIGURE 5A

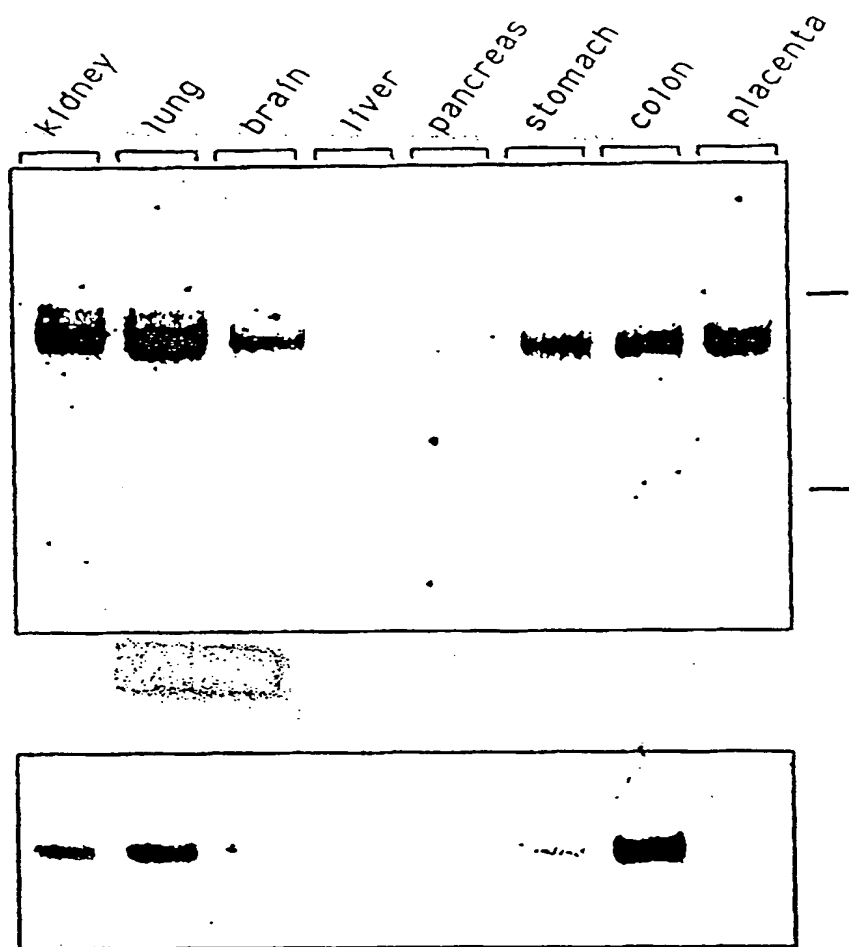


FIGURE 5B

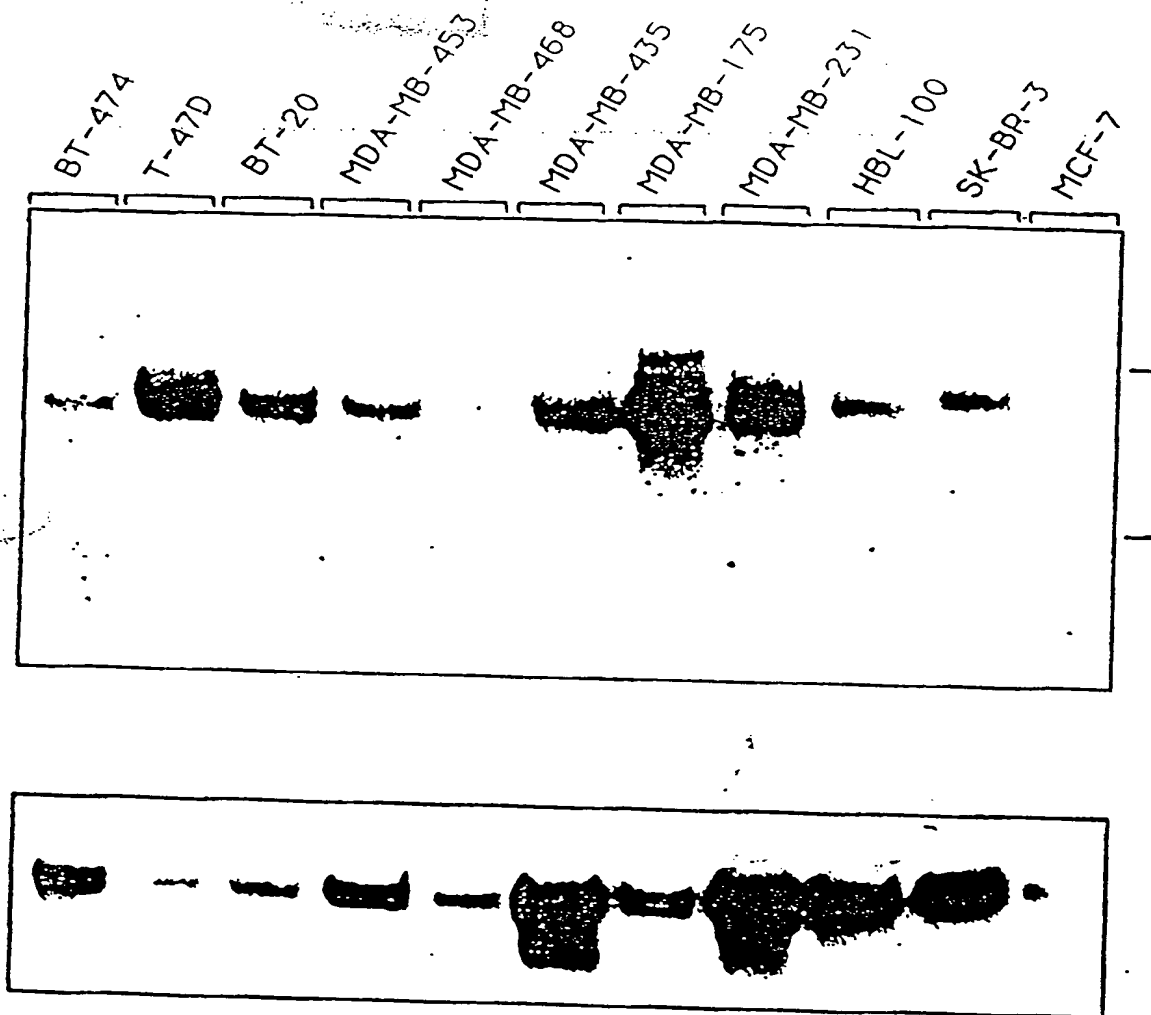


FIGURE 5C

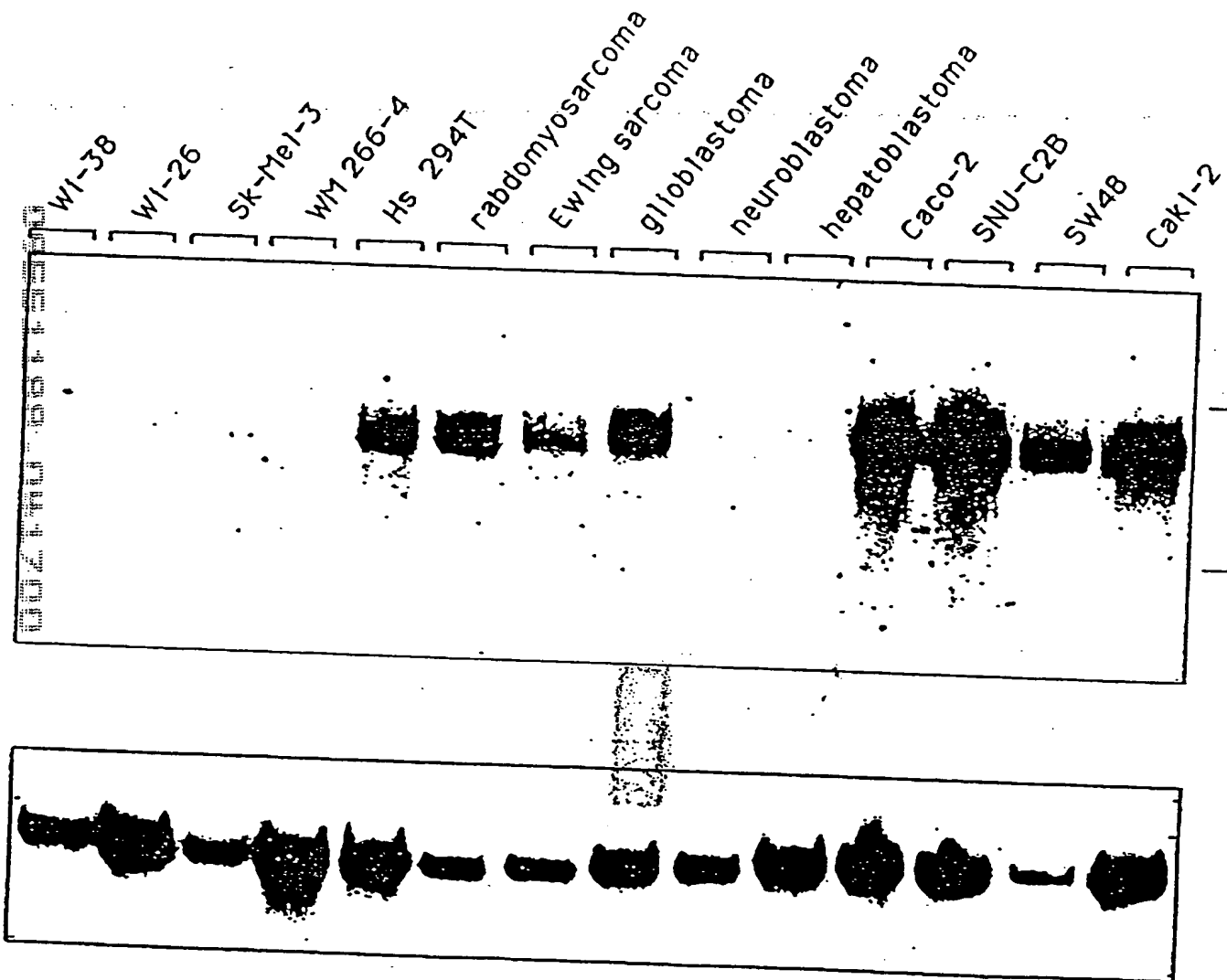
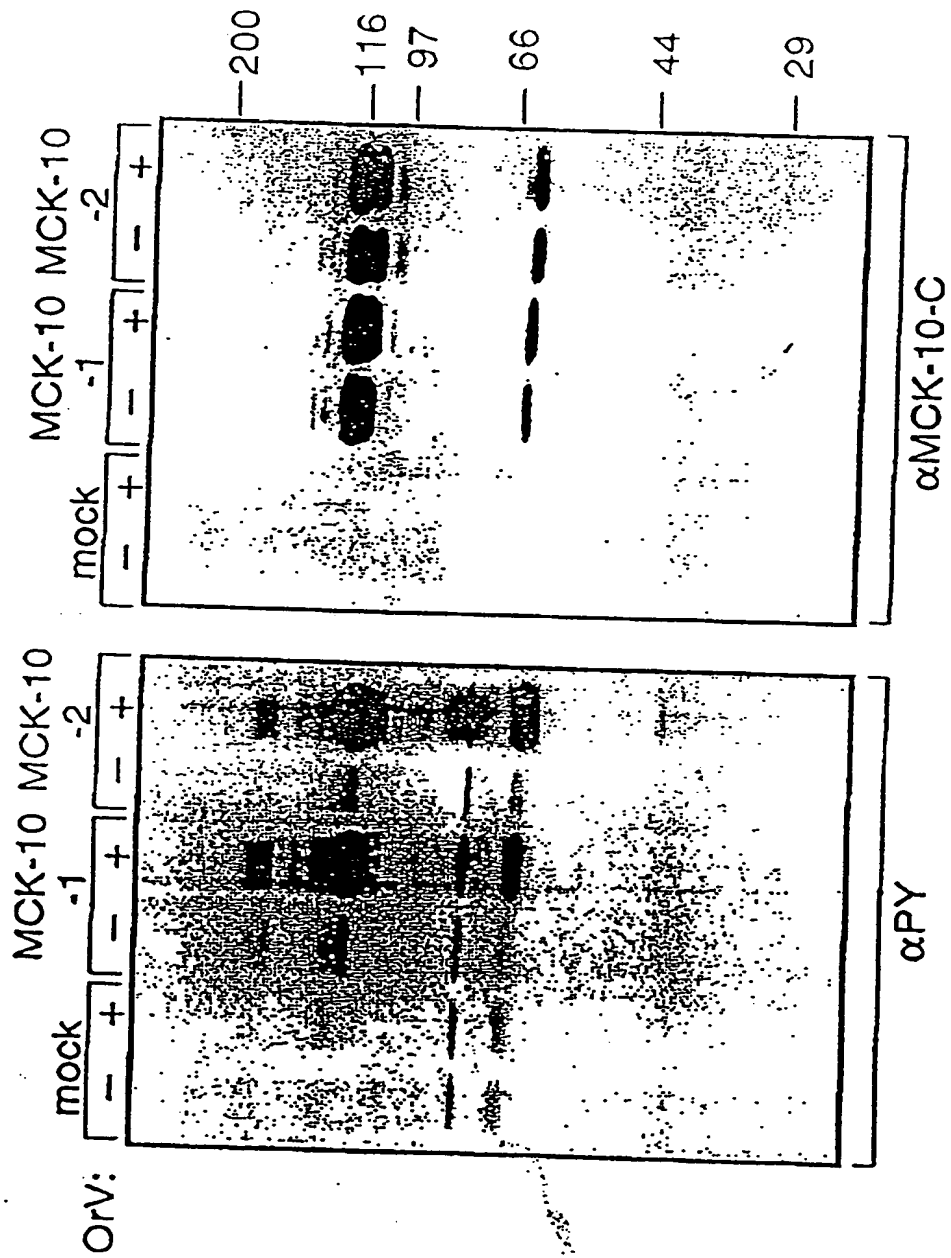


FIGURE 6A



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FIGURE 6B

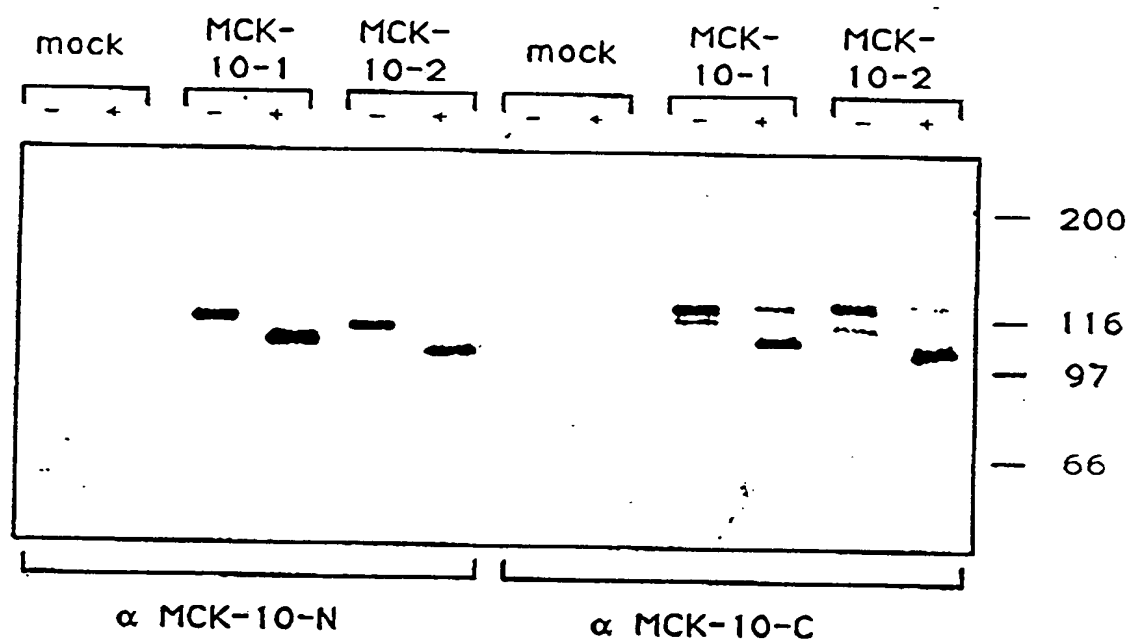
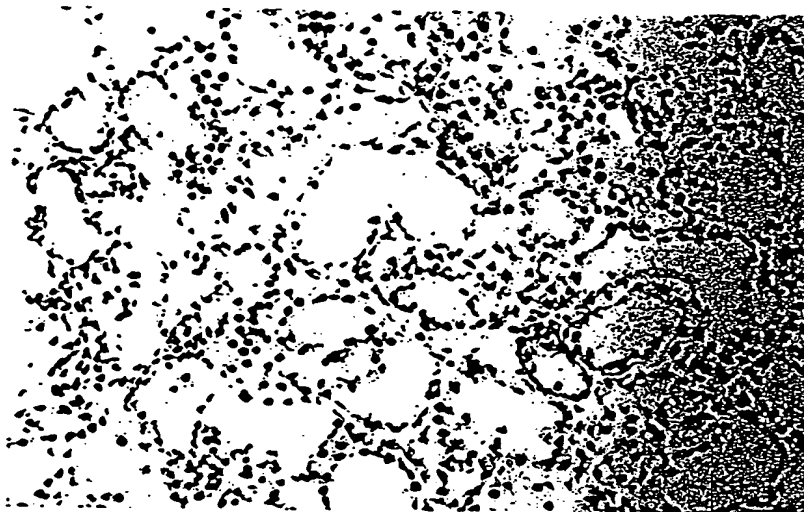


FIGURE 7A

lightfield



darkfield

FIGURE 7B

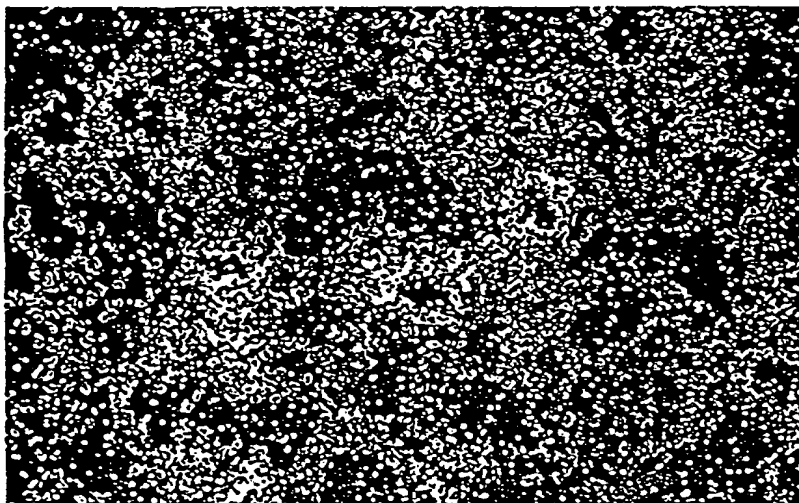
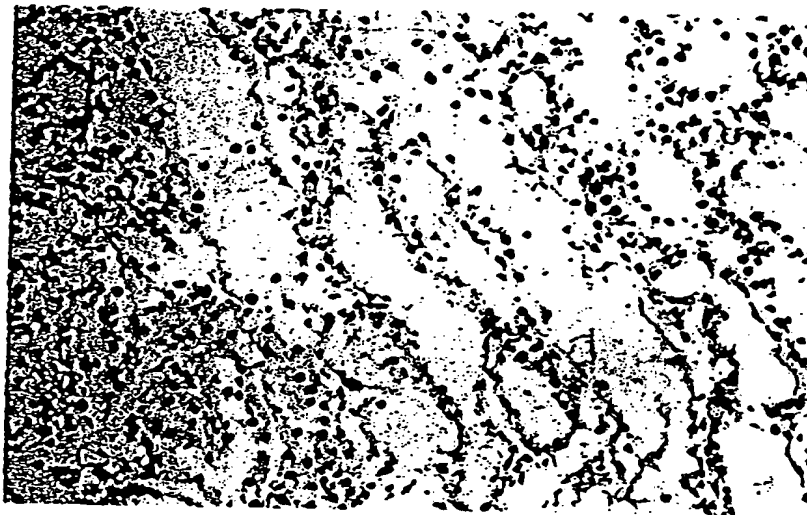




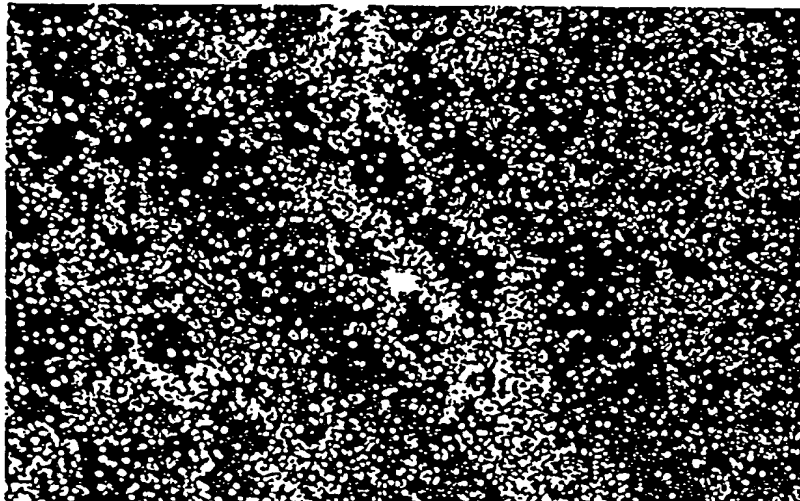
FIGURE 8A

lightfield



darkfield

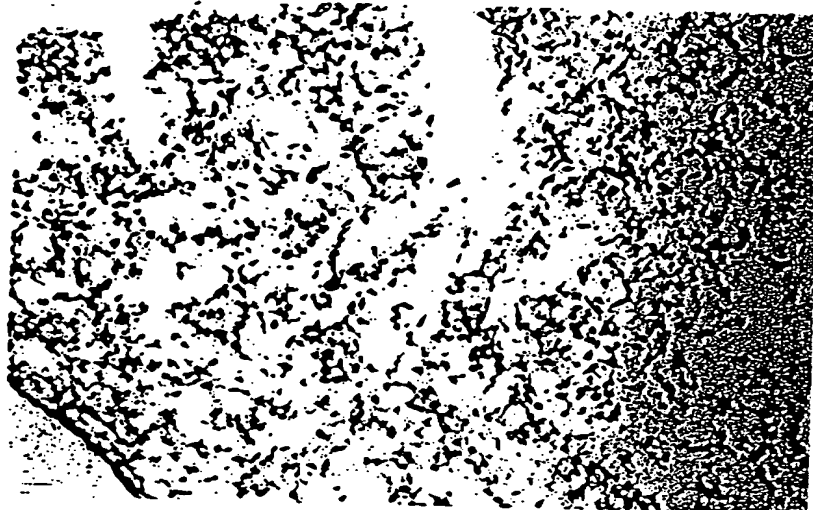
FIGURE 8B



002740 001500

FIGURE 9A

lightfield



darkfield

FIGURE 9B

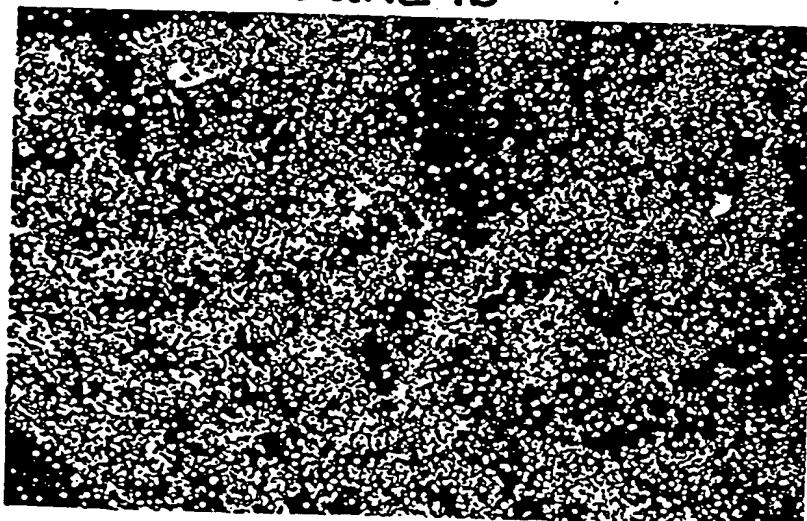
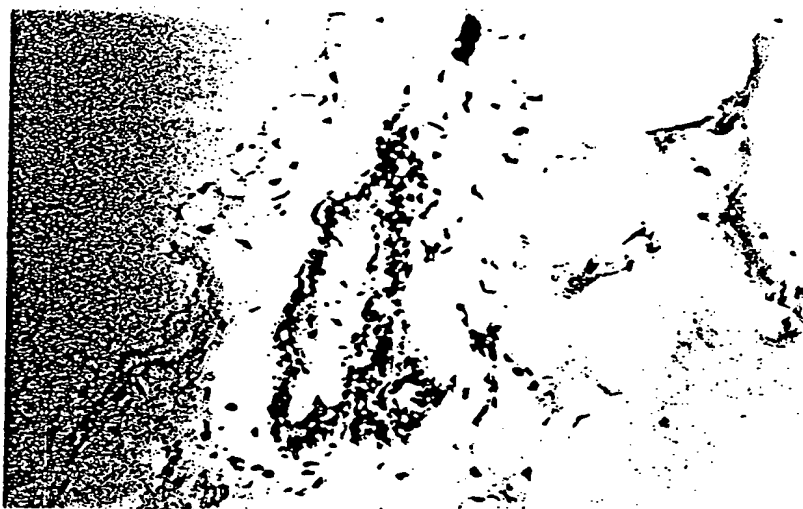


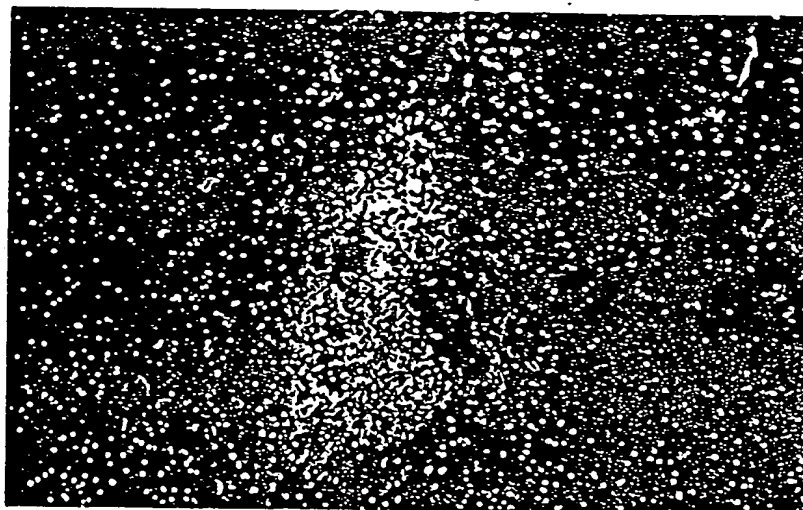
FIGURE 10A

lightfield



**darkfield**

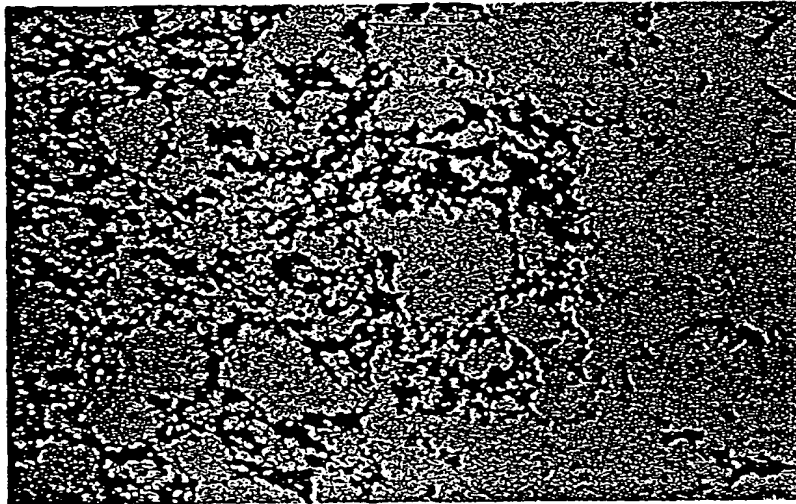
FIGURE 10B



Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

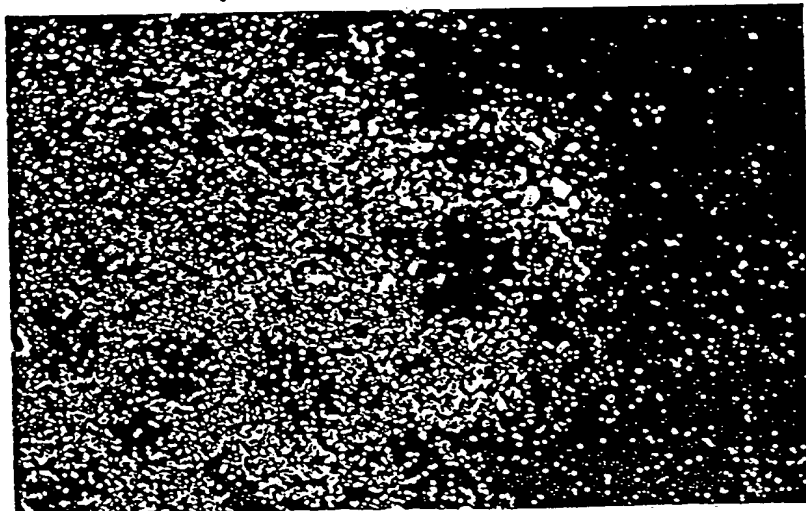
FIGURE IIA

lightfield

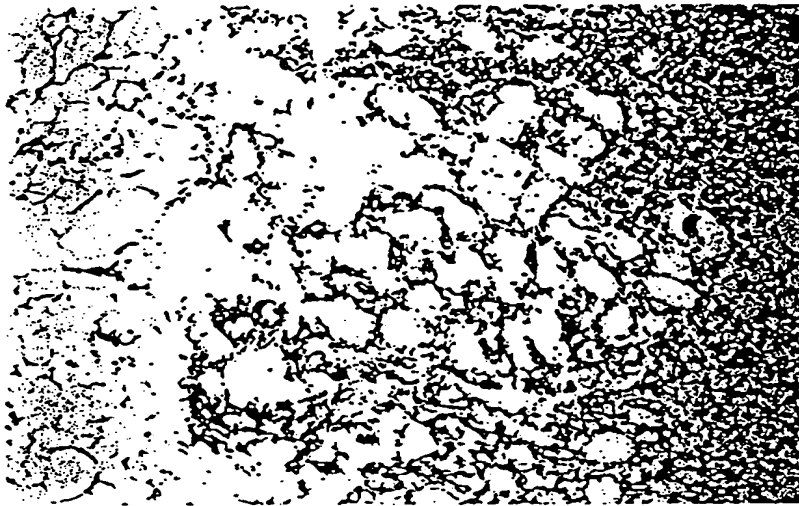


darkfield

FIGURE IIB



lightfield

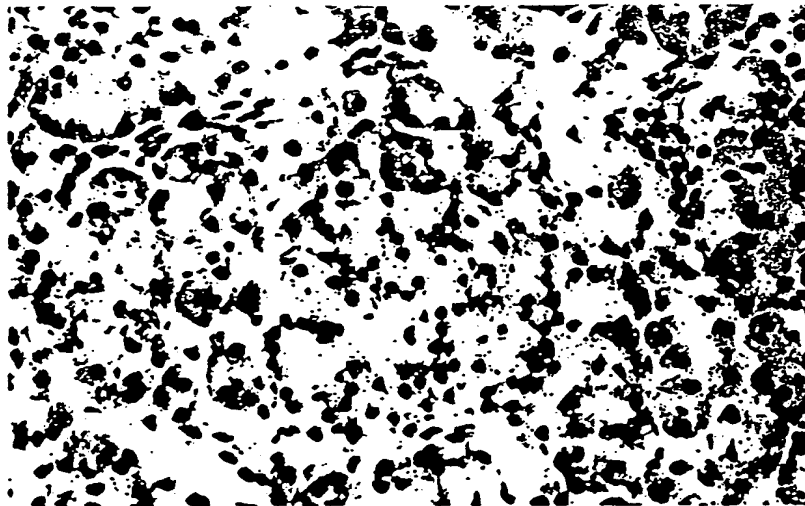


**darkfield**



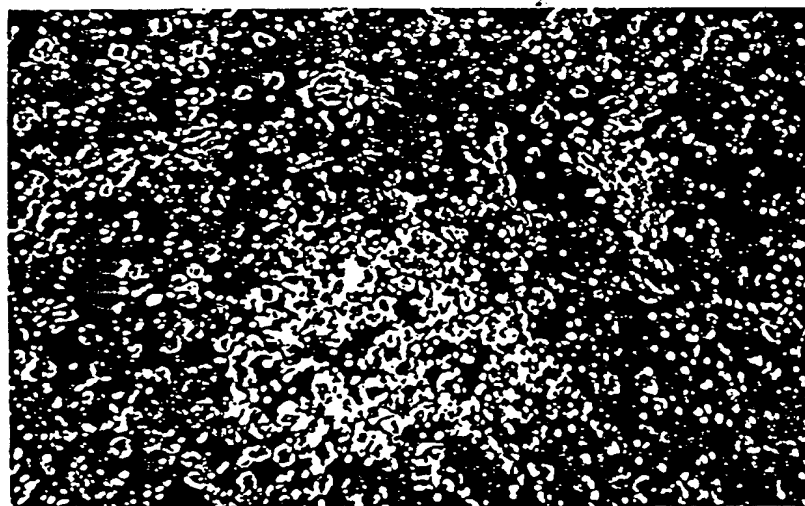
FIGURE 13A

**lightfield**



**darkfield**

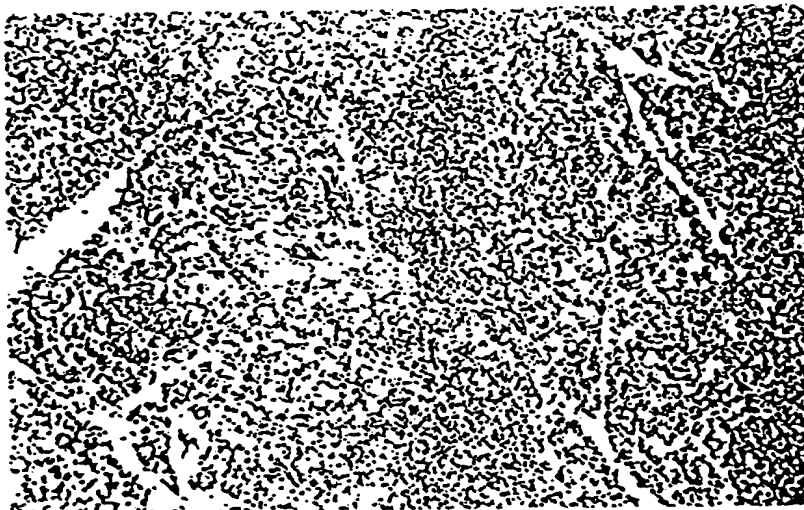
FIGURE 13B



Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

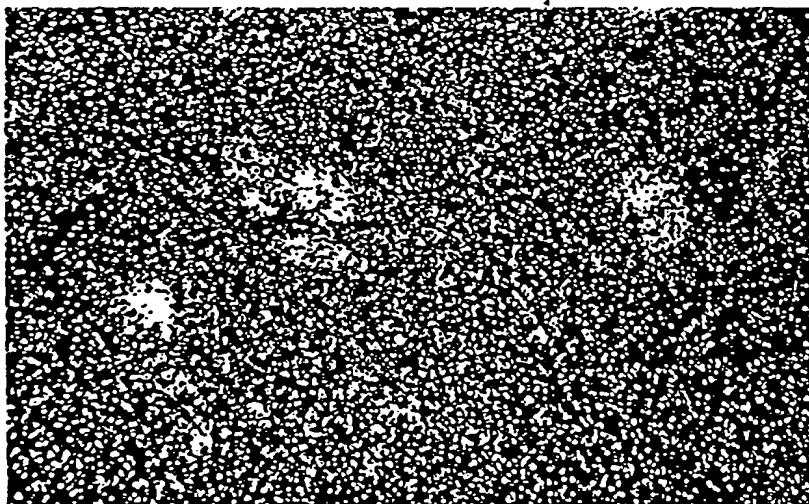
FIGURE 14A

lightfield



darkfield

FIGURE 14B



002740 851550

FIGURE 15A

lightfield



darkfield

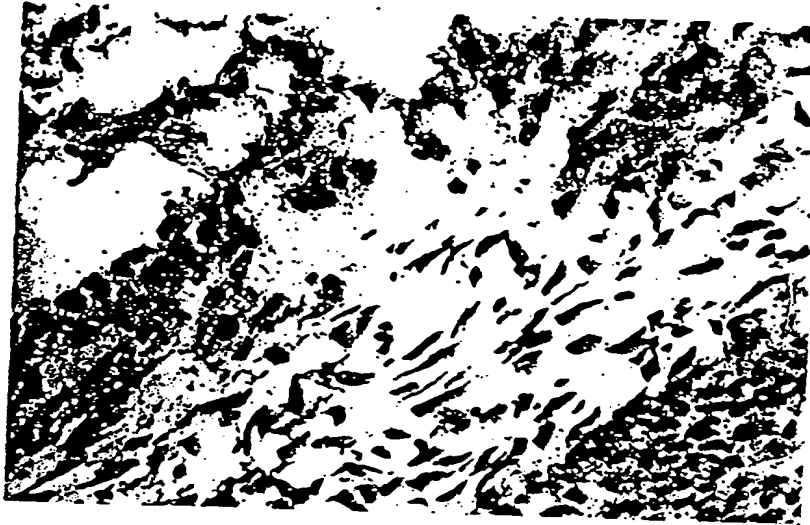
FIGURE 15B





FIGURE 16A

**lightfield**



**darkfield**

FIGURE 16B



STATION	DATE	TIME	WIND	TEMP	REL. HUM.	SEA	REMARKS
101	10/10/55	0000	000	55.0	100	0	Cloudy
101	10/10/55	0100	000	55.0	100	0	Cloudy
101	10/10/55	0200	000	55.0	100	0	Cloudy
101	10/10/55	0300	000	55.0	100	0	Cloudy
101	10/10/55	0400	000	55.0	100	0	Cloudy
101	10/10/55	0500	000	55.0	100	0	Cloudy
101	10/10/55	0600	000	55.0	100	0	Cloudy
101	10/10/55	0700	000	55.0	100	0	Cloudy
101	10/10/55	0800	000	55.0	100	0	Cloudy
101	10/10/55	0900	000	55.0	100	0	Cloudy
101	10/10/55	1000	000	55.0	100	0	Cloudy
101	10/10/55	1100	000	55.0	100	0	Cloudy
101	10/10/55	1200	000	55.0	100	0	Cloudy
101	10/10/55	1300	000	55.0	100	0	Cloudy
101	10/10/55	1400	000	55.0	100	0	Cloudy
101	10/10/55	1500	000	55.0	100	0	Cloudy
101	10/10/55	1600	000	55.0	100	0	Cloudy
101	10/10/55	1700	000	55.0	100	0	Cloudy
101	10/10/55	1800	000	55.0	100	0	Cloudy
101	10/10/55	1900	000	55.0	100	0	Cloudy
101	10/10/55	2000	000	55.0	100	0	Cloudy
101	10/10/55	2100	000	55.0	100	0	Cloudy
101	10/10/55	2200	000	55.0	100	0	Cloudy
101	10/10/55	2300	000	55.0	100	0	Cloudy

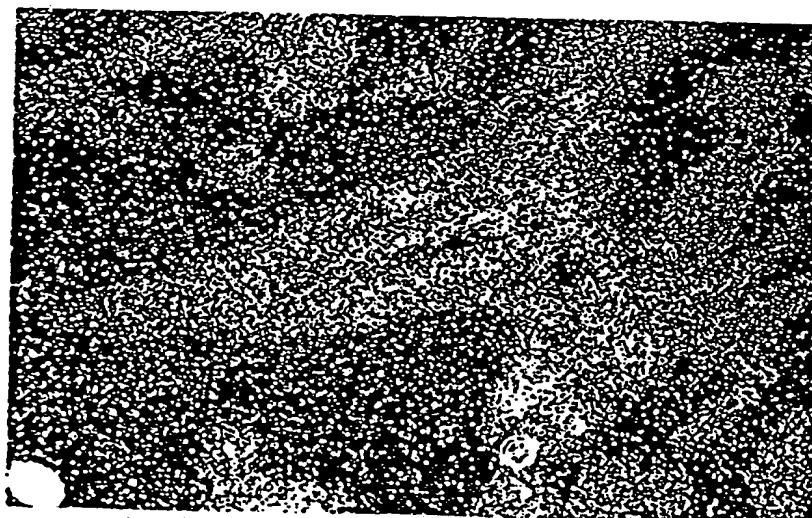
FIGURE 17A

lightfield



darkfield

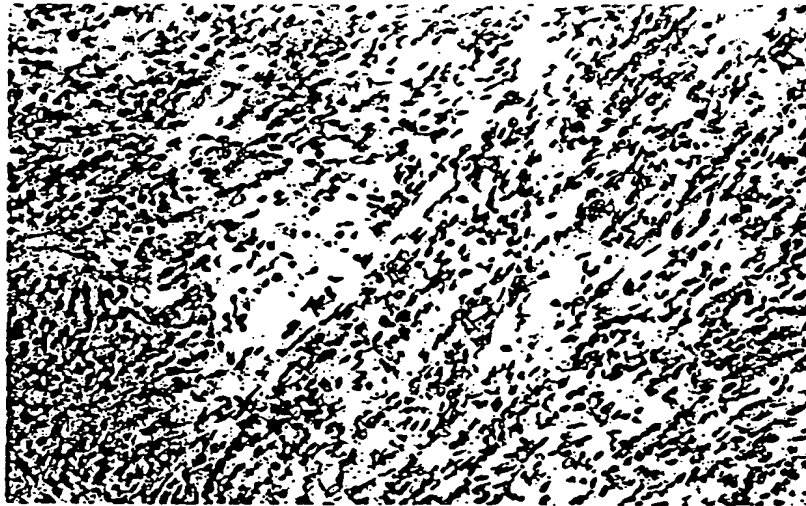
FIGURE 17B



002740-6615560

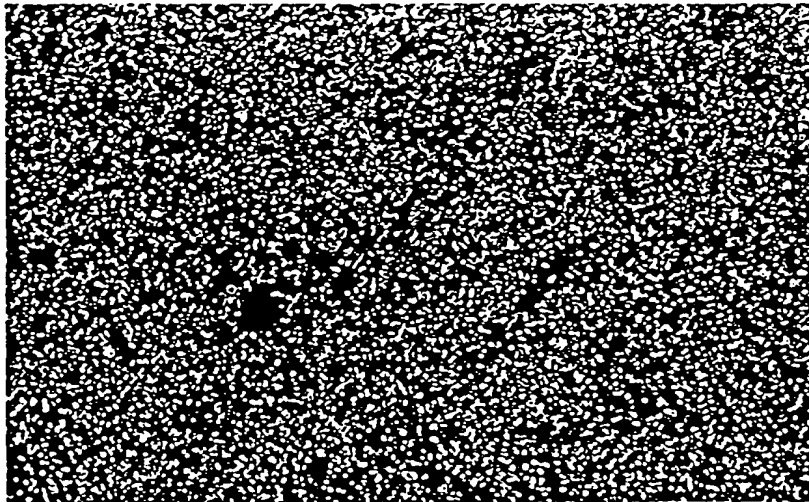
FIGURE 18A

lightfield



darkfield

FIGURE 18B



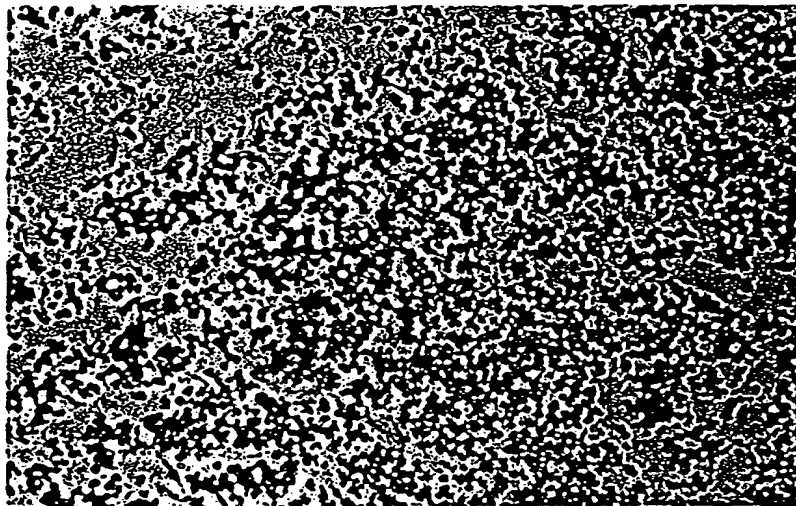
0055140:04700

A high-contrast, black and white image showing a dense, granular texture. The surface appears to be covered in a fine, irregular pattern of dark and light spots, giving it a rough, pebbled, or crystalline appearance. The lighting is somewhat uneven, with brighter areas towards the top and darker areas towards the bottom, emphasizing the three-dimensional quality of the texture.

1. *Staphylinidae* (10 species)  
 2. *Curculionidae* (10 species)  
 3. *Chrysomelidae* (10 species)  
 4. *Scarabaeidae* (10 species)  
 5. *Elmidae* (10 species)  
 6. *Chrysomelidae* (10 species)  
 7. *Curculionidae* (10 species)  
 8. *Staphylinidae* (10 species)  
 9. *Chrysomelidae* (10 species)  
 10. *Curculionidae* (10 species)  
 11. *Staphylinidae* (10 species)  
 12. *Chrysomelidae* (10 species)  
 13. *Curculionidae* (10 species)  
 14. *Staphylinidae* (10 species)  
 15. *Chrysomelidae* (10 species)  
 16. *Curculionidae* (10 species)  
 17. *Staphylinidae* (10 species)  
 18. *Chrysomelidae* (10 species)  
 19. *Curculionidae* (10 species)  
 20. *Staphylinidae* (10 species)

FIGURE 20A

**lightfield**



**darkfield**

FIGURE 20B:

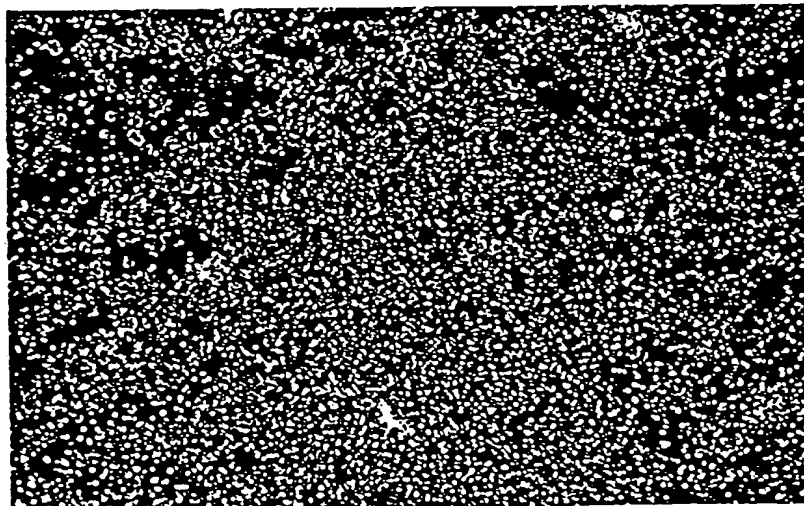
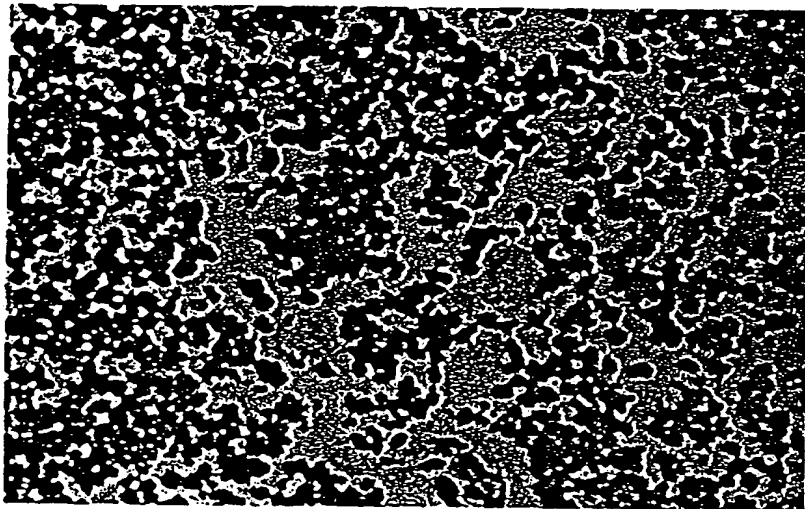


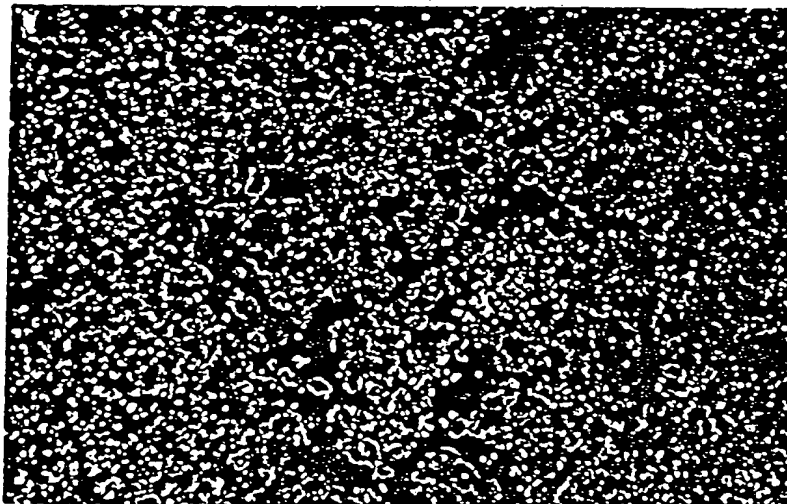
FIGURE 21A

lightfield



darkfield

FIGURE 21B



002140 00112560